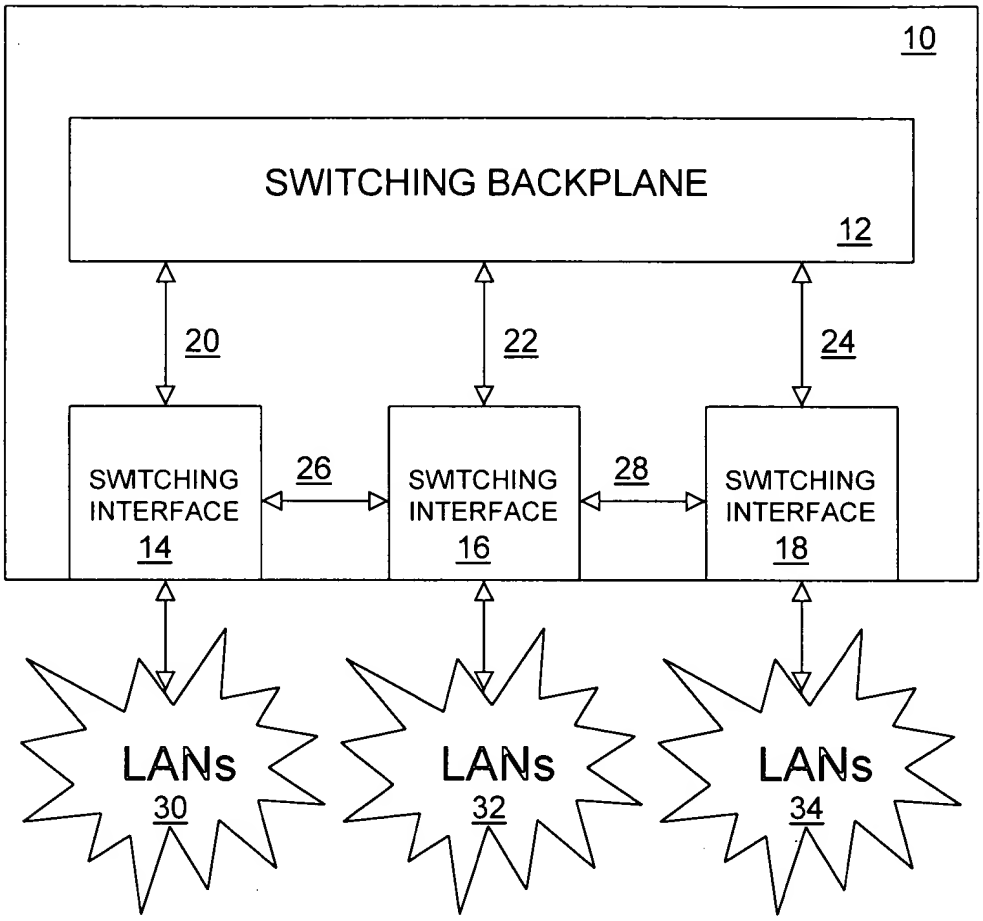

10
SWITCHING BACKPLANE
12
20
22
24
SWITCHING INTERFACE 14
26
SWITCHING INTERFACE 16
28
SWITCHING INTERFACE 18
LANs 30
LANs 32
LANs 34

FIG. 1

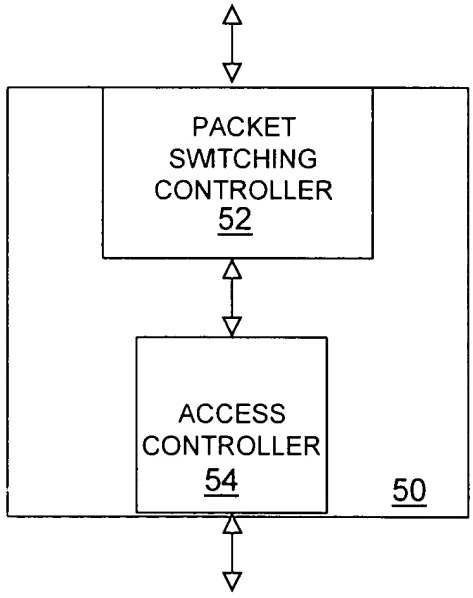

PACKET SWITCHING CONTROLLER 52
ACCESS CONTROLLER 54
50

FIG. 2

[illegible]

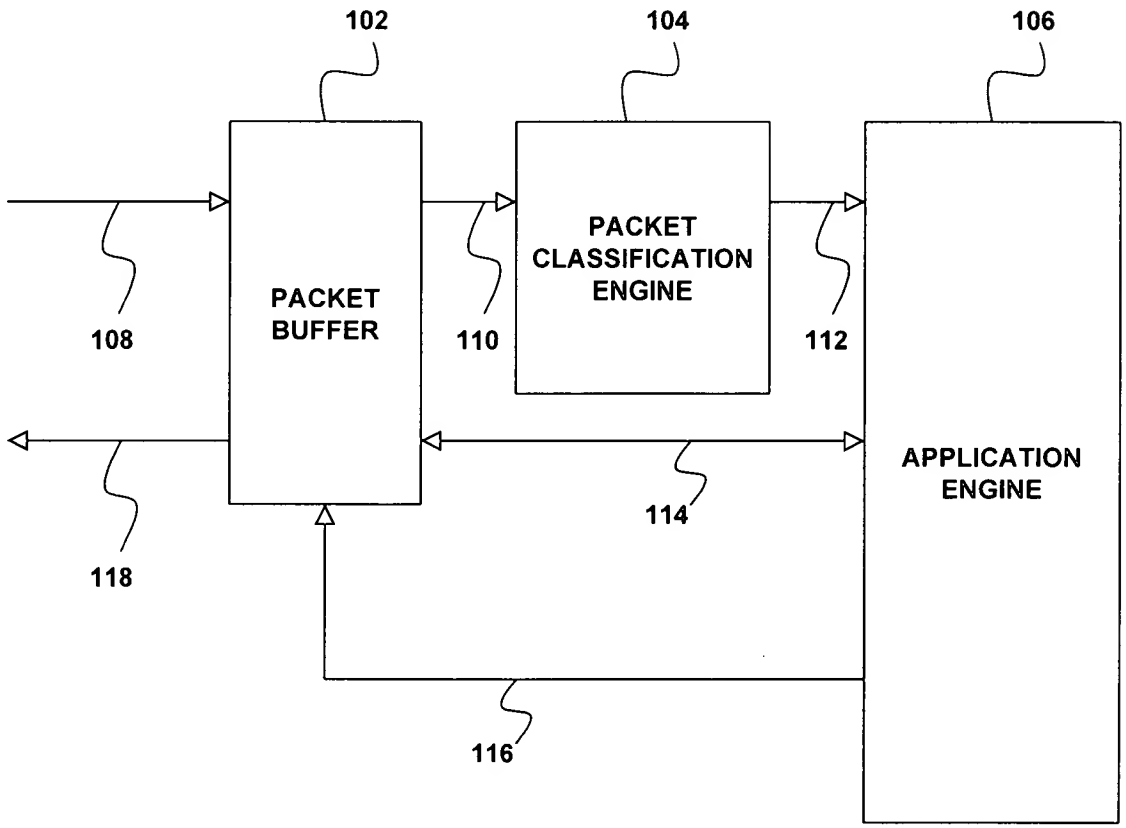

102
104
106
PACKET BUFFER
PACKET CLASSIFICATION ENGINE
APPLICATION ENGINE
108
110
112
114
116
118
100

FIG. 3

TOSOTO-SHZ3520

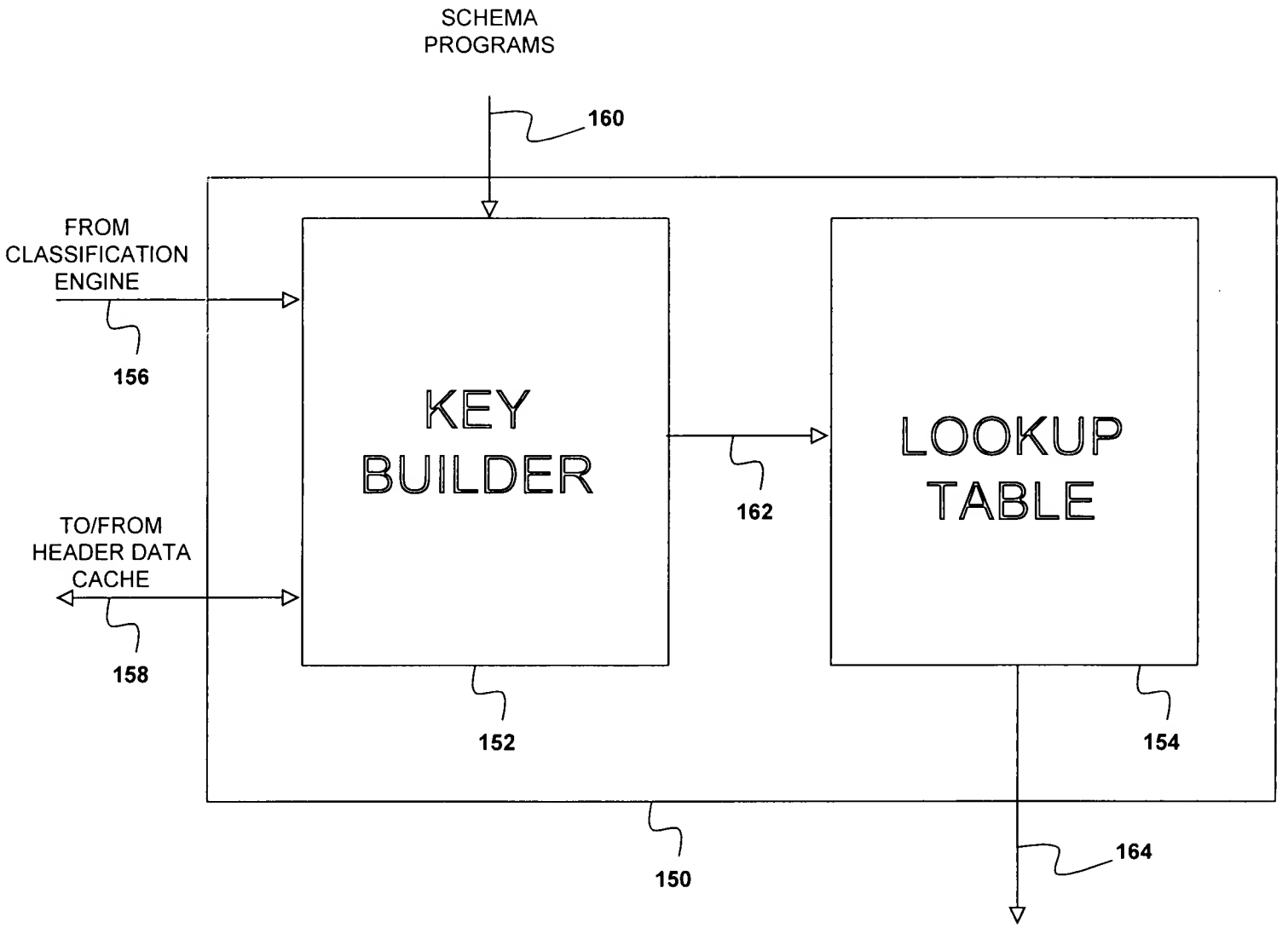
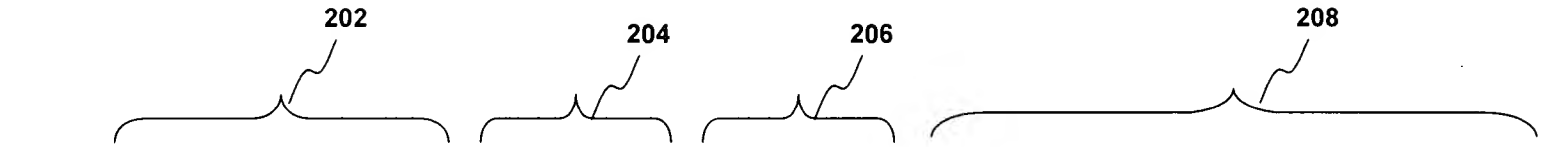


FIG. 4

TOOTS-6626250



	SCHEMA TYPE	KEY	KEY CONTROL	APPLICATION DATA	
TYPE I	SOURCE; CUSTOMERS IDENTIFIED BY VLAN	VLAN ID [12], APP ID [7], I	A	POLICE ID [17], COL [2], RE, QoS CP[6], Q, CO, PAYLOAD ID [20], PO, AP, ACCT FMT [2]	210
TYPE II	SOURCE; CUSTOMERS IDENTIFIED BY IP SOURCE ADDRESS	VLAN ID [12], APP ID [7], IPSA [32], I	IPSA MASK [6]	CV, FA, VLAN ID CHK [12], POLICE ID [17], COL [2], RE, QoS CP [6], Q, CO, PAYLOAD ID [20], PO, AP, ACCT FMT [2], CUST ID [6], S1, MR, F, HS	212
TYPE III	SOURCE + DESTINATION; CUSTOMERS IDENTIFIED BY MAC SOURCE ADDRESS	VLAN ID [12], MAC [48], APP ID [7], I	A	V S PORT [5], POLICE ID [17], COL [2], RE, QoS CP [6], Q, CO, PAYLOAD ID [20], PO, AP, ACCT FMT [2], CUST ID [6], S1, MR, F, HS, ST, HD	214
TYPE IV	MPLS; CUSTOMERS IDENTIFIED BY MPLS LABEL	VLAN ID [12], LABEL [20], I		VL, L3 PROTO [4], POLICE ID [17], COL [2], RE, QoS CP [6], Q, CO, PAYLOAD ID [20], PO, AP, ACCT FMT [2], CUST ID [6], S1, MR, F, HS, HD	216
TYPE V	SOURCE + DESTINATION; CUSTOMERS IDENTIFIED BY FULL BGP REVERSE PATH LOOKUP	IPDA [32], IPSA [32], D PORT [16], S PORT [16], T, I	IPDA MASK [5], FL	PATH COUNT [3], PAYLOAD ID [20], PO, AP, ACCT FMT [2], CUST ID [6], S1, MR, F, HS, HD	218
TYPE VI	DESTINATION; IP MULTICAST ROUTING	IPMA [32], VLAN ID [12], IPSA [32], I	MASK [7]	PAYLOAD ID [20], HD	220
TYPE VII	DESTINATION; FULL LENGTH IPv6 ROUTING	IPV6DA [128]	IPDA MASK [7]	PAYLOAD ID [20], HD	222

200

FIG. 5

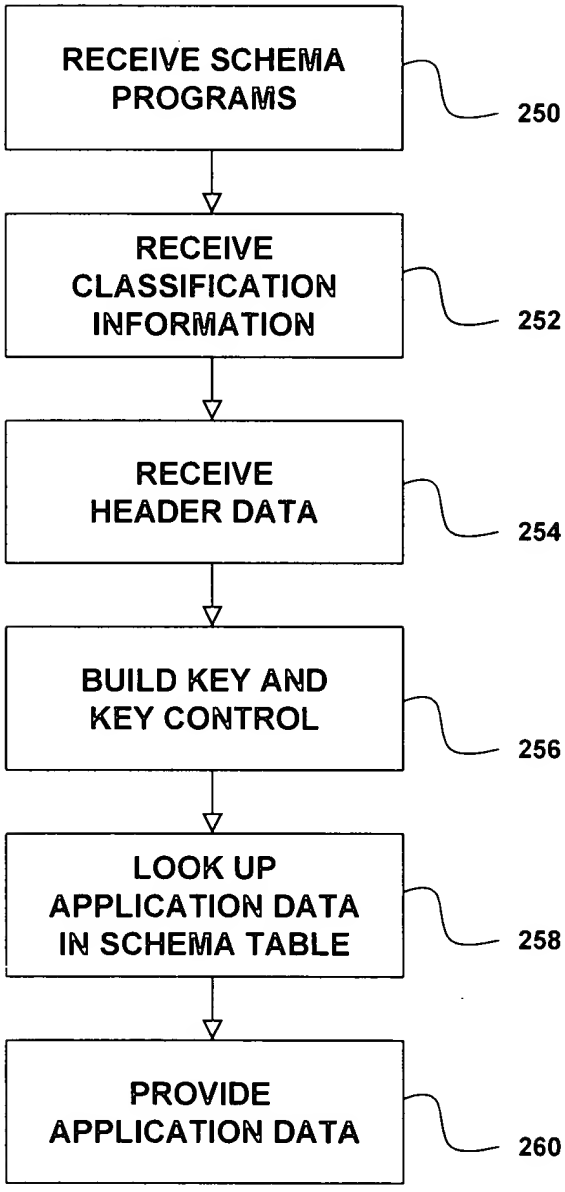

RECEIVE SCHEMA PROGRAMS
250
RECEIVE CLASSIFICATION INFORMATION
252
RECEIVE HEADER DATA
254
BUILD KEY AND KEY CONTROL
256
LOOK UP APPLICATION DATA IN SCHEMA TABLE
258
PROVIDE APPLICATION DATA
260

FIG. 6